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GARLICK, HARRISON & MARKISON, LLP BRUCE E. GARLICK P.O. BOX 160727 AUSTIN, TX 78716-0727 Under Secretary of Commerce For Intellectual Property and Director of the United States Patent and Trademark Office Washington, DC 20231 www.uspto.gov



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BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

SHI, HONG

DOC DATE: 09/27/2001

ASSIGNEE:

BROADCOM CORPORATION 16215 ALTON PARKWAY IRVINE, CALIFORNIA 92618-7013

SERIAL NUMBER: 09968060

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ISSUE DATE:

KIMBERLY WHITE, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

FCRM PTO-1595 10-11-	2001 TE. U.S. DEPARTMENT OF COMMERCE
	PATENT AND TRADEMARK OFFICE
To the Honorable Commissioner of Patent 10187	2308 une attached original documents or copy thereof
Name of conveying party(ies): Hong Shi	2. Name and address of receiving party(ies):  Name: Broadcom Corporation
Additional name(s) of conveying party(ies) attached? ☐ yes ■ no	Internal Address:
3. Nature of conveyance:	Street Address: 46245 Alten Berlauev
■ Assignment □ Merger □ Security Agreement □ Change of Name	Street Address: 16215 Alton Parkway City: Irvine State: California Zip: 92618-7013 Country: United States
□ Other	Additional name(s) & address(es) attached? ☐ Yes ■ No
Execution Dates: September 27, 2001	
4. Application number(s) or patent number(s):	
If this document is being filed together with a new application, the execution date of the application is: September 27, 2001	
A. Patent Application No.(s)	B. Patent No.(s)
•	·
Additional numbers attached? ☐ Yes ■ No	
<ol><li>Name and address of party to whom correspondence concerning document should be mailed:</li></ol>	6. Total number of applications and patents involved:
Name: Bruce E. Garlick	
Internal Address: Garlick, Harrison & Markison, LLP	7. Total fee (37 C.F.R. 3.41)\$ 40.00
Street Address: <b>P.O. Box 160727</b>	■ Enclosed  ☐ Authorized to be charged to deposit account
	8. Deposit account number:
City: <u>Austin</u> "State: <u>TX</u> Zip: <u>78716-0727</u>	(Attach duplicate copy of this page if paying by deposit account)
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9. Statement and signature.	
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.	
Bruce E. Garlick	September 28, 2001
Name of Person Signing Signature Date	
Total number of pages comprising cover sheet:	

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## **ASSIGNMENT for Patent Application**

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor Hong Shi, the undersigned inventor(s) hereby sell(s) and assign(s) to Broadcom Corporation, a California corporation having a principal place of business at 16215 Alton Parkway, Irvine, California 92618-7013 (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages:

check applicable box (es) ☐ for the United States of America (as defined in 35 U.S.C. § 100 et seq.), ☐ and throughout the world,

- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, relssues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-

part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventor(s) hereby grant(s): Bruce E. Garlick, Registration No. 36,520, James A. Harrison, Registration No. 40,401, Timothy W. Markison, Registration No. 33,534, and Shayne X. Short, Registration No. 45,105, and Robert C. Strawbrich, Registration No. 36,692; all of Garlick, Harrison & Markison, LLP, P.O. Box 160727, Austin, Texas 78716-0727, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by th	e undersigned inventor(s) on the date
opposite his/her name.	1 1
Hay han	9/27/2001
Hong Shi:	Date:

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## **ASSIGNMENT for Patent Application**

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to the undersigned inventors, Zhongming Shi and Reza Rofougaran, the undersigned inventors hereby sell and assign to Broadcom Corporation, a California corporation having a principal place of business at 16215 Alton Parkway, Irvine, California 92618-7013 (the Assignee) their entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages:

check applicable box (es) of for the United States of America (as defined in 35 U.S.C. \$ 100 et seq.), and throughout the world.

- (a) in the invention known as A DIRECT CONVERSION RF TRANSCEIVER FOR WIRELESS COMMUNICATIONS for which application for patent in the United States of America has been executed by the undersigned on the date(s) indicated below in any and all applications thereon, in any and all Letters Patent(s) therefor, and
- (b) in any and all applications that claim the benefit of the patent application listed above in pan (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable:

all such rights, the and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignors had this assignment and sale not been made.

The undersigned inventors agree to execute all papers necessary in connection with the application and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

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Each of the undersigned inventors agrees to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee patent enforcement action.

Each of the undersigned inventors hereby represents that he has full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreement in conflict therewith.

Each of the undersigned inventors hereby grants: Bruce E. Garlick, Registration No. 36,520, James A. Harrison, Registration No. 40,401, Timothy W. Markison, Registration No. 33,534, Shayne X. Short, Registration No. 45,105, and Robert C. Strawbrich, Registration No. 36,692; all of Garlick, Harrison & Markison, LLP, P.O. Box identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by each of the undersigned inventors on the date opposite his name.

ZHONGMING SHI

Date

REZA ROFOUGARAN

Date: 1-11-2002